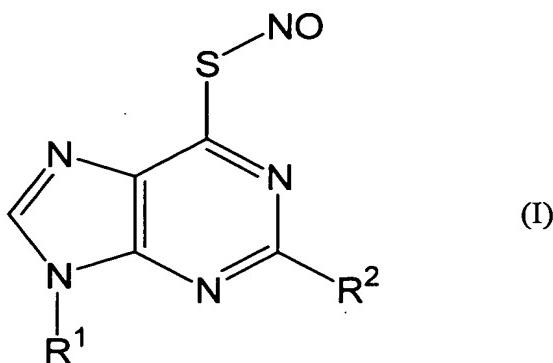


CLAIMS

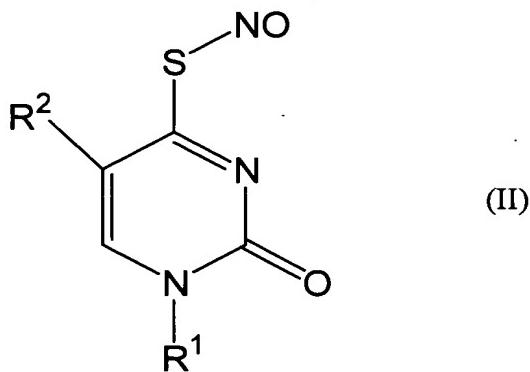
1. A thionucleoside-S-nitrosyl derivative of the following Formula (I) or a salt thereof:



5

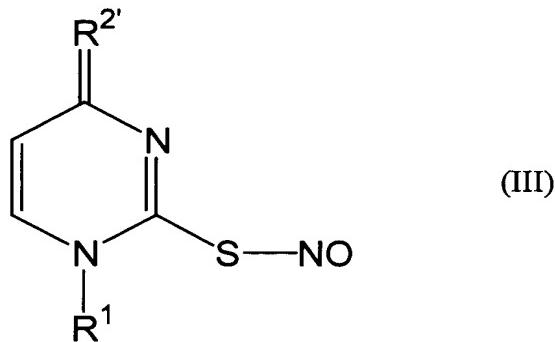
[wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents a hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R³-oxy group or a R³-amino group (wherein R³ represents an optionally substituted C₁₋₁₅ alkyl group or an optionally substituted C₁₋₁₅ acyl group)].

- 10 2. A thionucleoside-S-nitrosyl derivative of the following Formula (II) or a salt thereof:



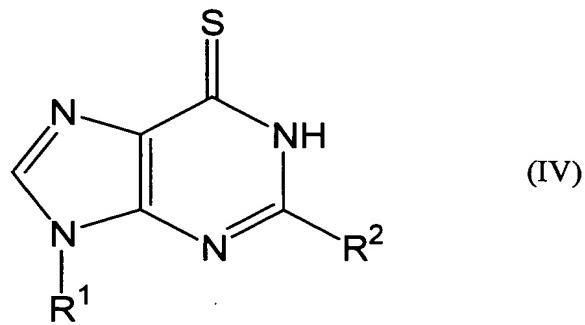
[wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents a hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R³-oxy group or a R³-amino group (wherein R³ represents an optionally substituted C₁₋₁₅ alkyl group or an optionally substituted C₁₋₁₅ acyl group)].

- 5 3. A thionucleoside-S-nitrosyl derivative of the following Formula (III) or a salt thereof:



- 10 (wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents an oxygen atom, a sulfur atom or an imino group).

4. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises reacting a thionucleoside of the following Formula (IV):

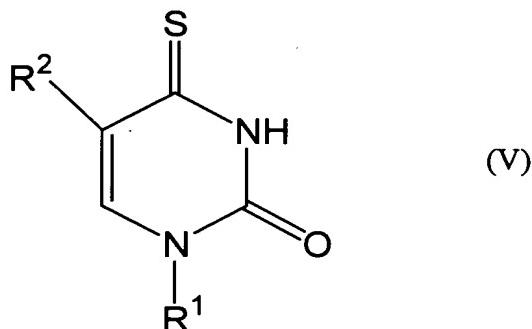


15

[wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents a

hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R³-oxy group or a R³-amino group (wherein R³ represents an optionally substituted C₁₋₁₅ alkyl group or an optionally substituted C₁₋₁₅ acyl group)] with a nitrosyl compound.

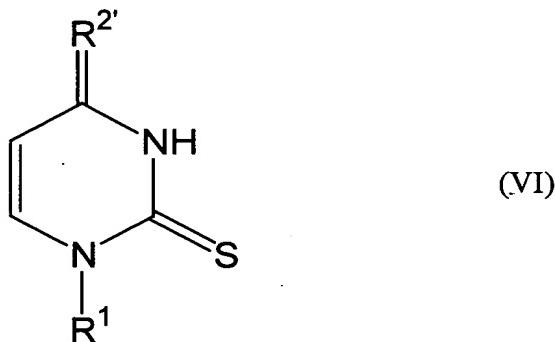
5. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises
5 reacting a thionucleoside of the following Formula (V):



- [wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents a
10 hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R³-oxy group or a R³-amino group (wherein R³ represents an optionally substituted C₁₋₁₅ alkyl group or an optionally substituted C₁₋₁₅ acyl group)] with a nitrosyl compound.

6. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises
reacting a thionucleoside of the following Formula (VI):

15



(wherein R¹ represents ribose, 2-deoxyribose or a derivative of either, and R² represents an oxygen atom, a sulfur atom or an imino group) with a nitrosyl compound.

7. An oligonucleic acid comprising the derivative according to any one of claims 1 to 3 or a salt thereof.
8. The oligonucleic acid according to claim 7, which has a length of at least 12 bases.
9. A method for transferring a nitrosyl group, which comprises reacting the oligonucleic acid according to claim 7 or 8 with its complementary strand to transfer the nitrosyl group contained in the oligonucleic acid to a corresponding base in its complementary strand.
10. 10. A method for mutagenesis of a nucleotide sequence, which comprises reacting the oligonucleic acid according to claim 7 or 8 with its complementary strand, and treating the resulting reaction product under acidic conditions.
11. The method according to claim 10, wherein the nucleotide sequence is a nucleotide sequence corresponding to the derivative in the oligonucleic acid.
- 15 12. The method according to claim 10 or 11, wherein the mutagenesis generates a mutation to uracil.
13. A mutagenic agent for a nucleotide sequence, which comprises at least one member selected from the group consisting of the derivative according to any one of claims 1 to 3 and the oligonucleic acids according to claims 7 and 8.
- 20 14. A mutagenesis kit for a nucleotide sequence, which comprises at least one member selected from the group consisting of the derivative according to any one of claims 1 to 3 and the oligonucleic acids according to claims 7 and 8.